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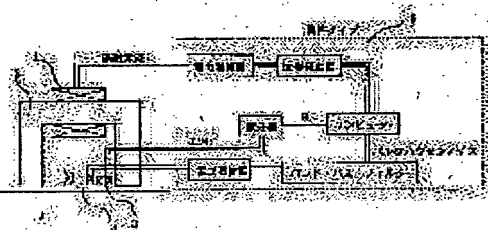
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## (54) DETECTION METHOD OF BARKHAUSEN NOISE

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a simple detection method for a Barkhausen noise in which a required system factor in various kinds of system factors or required stress information is mainly included.

SOLUTION: Concerning this detection method, a direct current is superposed on an alternating exciting current to be made to flow usually into an exciting coil 1 in order to measure a Barkhausen noise after magnetizing a part to be measured, and thereby generation of the Barkhausen noise is suppressed during the period when the direct current is superposed. Besides, a B-i loop, by which the relation between the alternating exciting current (i) and the magnetic flux density B of the part to be measured is shown, is measured, and the timing to superpose the direct current from the B-i loop is set, based on a magnetic flux density range where the Barkhausen noise is desired to be measured.



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